

This circular will be sent regularly to all who apply for it.

## United States Department of Agriculture,

WASHINGTON, D. C., *February 29, 1916.*

### MONTHLY LIST OF PUBLICATIONS.

[FEBRUARY, 1916.]

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#### HOW TO SECURE PUBLICATIONS.

A copy of any of the publications listed herein, including those with price named, except the Journal of Agricultural Research, Experiment Station Record, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply of the publications listed below is exhausted, those publications of which the price is indicated can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

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#### SPECIAL NOTICE.

An increasing number of requests for publications is being received daily in this division with incomplete addresses. Many correspondents fail to sign their names. Some do not give post-office address. Persons living in large cities fail to furnish the street address; and some give as the post-office address the name of an office that has been discontinued for years. The department is unable to handle correspondence unless the signature is legible and the post-office address given in full, with street number or rural route number, as the case may be. Correspondents are therefore earnestly requested to see that the complete address is given in all communications addressed to this department.

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#### FARMERS' BULLETINS.—FOR FREE DISTRIBUTION.

No price is quoted for Farmers' Bulletins for the reason that the department's supply of the current numbers is ordinarily sufficient to make it possible to send them free to all applicants.

**The Catalpa Sphinx.** By L. O. Howard and F. H. Chittenden. Pp. 10, figs. 5. Contribution from the Bureau of Entomology. Feb. 16, 1916. (Farmers' Bulletin 705.)

Is of interest throughout the United States wherever catalpa trees occur.

**Laws Relating to Fur-Bearing Animals, 1915.** A Summary of Laws in the United States and Canada Relating to Trapping, Protection, Propagation, and Bounties. By D. E. Lantz, Assistant Biologist. Pp. 24. Contribution from the Bureau of Biological Survey. Feb. 23, 1916. (Farmers' Bulletin 706.)

For general distribution among persons interested in fur farming, trapping, and the fur trade.

**The Commercial Grading, Packing, and Shipping of Cantaloupes.** By C. T. More, Investigator in Market Grades and Standards, and G. V. Branch, Investigator in City Marketing. Pp. 23, figs. 18. Contribution from the Office of Markets and Rural Organization. Feb. 2, 1916. (Farmers' Bulletin 707.)

Should be of interest to the commercial growers and shippers of cantaloupes in all sections of the United States.

**The Leopard Moth: A Dangerous Imported Insect Enemy of Shade Trees.** By L. O. Howard and F. H. Chittenden. Pp. 12, figs. 4. Contribution from the Bureau of Entomology. Feb. 14, 1916. (Farmers' Bulletin 708.)

Is of interest to growers of shade and ornamental trees, especially in the New England and North Atlantic States.

**Bridge Grafting of Fruit Trees.** By W. F. Fletcher, Scientific Assistant, Office of Horticultural and Pomological Investigations. Pp. 8, figs. 7. Contribution from the Bureau of Plant Industry. Feb. 21, 1916. (Farmers' Bulletin 710.)

Illustrates a method of overcoming damage done to fruit trees by rabbits, mice, insects, and careless tillage.

#### DEPARTMENT BULLETINS.—TECHNICAL.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

**The Spruce and Balsam Fir Trees of the Rocky Mountain Region.** By George B. Sudworth, Dendrologist. Pp. 43, pls. 25, maps 10. Contribution from the Forest Service. (Professional Paper.) Feb. 19, 1916. (Department Bulletin 327.) Price, 20 cents.

Of service botanically or commercially for the trees described.

**Termites, or "White Ants," in the United States: Their Damage and Methods of Prevention.** By Thomas E. Snyder, M. F., Assistant in Forest Entomology, Forest Insect Investigations. Pp. 32, pls. 15, figs. 5. Contribution from the Bureau of Entomology. (Professional Paper.) Feb. 16, 1916. (Department Bulletin 333.) Price, 15 cents.

Describes habits, and shows geographical distribution, of these insects, and recommends preventive and remedial measures.

**Cereal Experiments in Maryland and Virginia.** By T. R. Stanton, Scientific Assistant, Office of Cereal Investigations. Pp. 32, figs. 6. Contribution from the Bureau of Plant Industry. Feb. 10, 1916. (Department Bulletin 336.) Price, 10 cents.

Of special interest to farmers in the States named.

**Notes on the Preoviposition Period of the House Fly, *Musca Domestica* L.** By R. H. Hutchison, Scientific Assistant. Pp. 14, fig. 1. Contribution from the Bureau of Entomology. (Professional Paper.) Feb. 5, 1916. (Department Bulletin 345.) Price, 5 cents.

Intended for entomologists and others who are interested in the extermination of house flies.

**Home Projects in Secondary Courses in Agriculture.** By H. P. Barrows, Assistant in Agricultural Education. Pp. 20. Contribution from the State Relations Service. (Professional Paper.) Feb. 21, 1916. (Department Bulletin 346.) Price, 5 cents.

Gives information regarding the home-project plan of teaching agriculture, and is of interest primarily to teachers in secondary rural schools.

#### MISCELLANEOUS.

**The Spring Grain Aphis or "Green Bug" in the Southwest and the Possibilities of an Outbreak in 1916.** By F. M. Webster, In Charge of Cereal and Forage Insect Investigations, Bureau of Entomology. Pp. 3, figs. 3. Feb. 5, 1916. (Circular 55, Office of the Secretary.) Price, 5 cents.

**Safe Farming.** By Bradford Knapp, Chief, Office of Extension Work in the South, States Relations Service. Pp. 16. Feb. 1, 1916. (Circular 56, Office of the Secretary.) Price, 5 cents.

#### SERIALS.

**Journal of Agricultural Research.** (Issued weekly. For sale only.) Vol. 5. No. 19. Feb. 7, 1916. Contents: Agglutination Test as a Means of Studying the Presence of *Bacterium abortus* in Milk. By L. H. Cooledge.—Boron: Its Absorption and Distribution in Plants and Its Effect on Growth. By F. C. Cook.—Further Studies on Peanut Leafspot. By Frederick A. Wolf.—Relation Between the Properties of Hardness and Toughness of Road-Building Rock. By Prevost Hubbard and F. H. Jackson, Jr. Pp. 871-907, fig. 1. Price, 10 cents.

**Journal of Agricultural Research**, No. 20. Feb. 14, 1916. Contents: Nitrogen Content of the Humus of Arid Soils. By Frederick J. Alway and Earl S. Bishop.—Life-History Studies of the Colorado Potato Beetle. By Pauline M. Johnson and Anita M. Ballinger.—Some Factors Influencing the Longevity of Soil Micro-organisms Subjected to Desiccation, with Special Reference to Soil Solution. By Ward Giltner and H. Virginia Langworthy.—Observations on the Life History of the Cherry Leaf Beetle. By Glenn W. Herrick and Robert Matheson.—Apparatus for Measuring the Wear of Concrete Roads. By A. T. Goldbeck. Pp. 909-954, pls. LXIII-LXVI, fig. 1. Price, 10 cents.

*Same*, No. 21. Feb. 21, 1916. Contents: Morphology and Biology of the Green Apple Aphis. By A. C. Baker and W. F. Turner.—Soilstain, or Scurf, of the Sweet Potato. By J. J. Taubenhause. Pp. 955-1002, pls. LXVII-LXXXVII, figs. 4. Price, 10 cents.

*Same*, No. 22. Feb. 28, 1916. Contents: An Asiatic Species of Gymnosporangium Established in Oregon. By H. S. Jackson.—Relation of Stomatal Movement to Infection by *Cercospora beticola*. By Venus W. Pool and M. B. McKay.—A Method of Correcting for Soil Heterogeneity in Variety Tests. By Frank M. Surface and Raymond Pearl. Pp. 1003-1050, pl. LXXXVIII-LXXXI, figs. 7. Price, 10 cents.

NOTE.—Beginning with Volume 5, THE JOURNAL OF AGRICULTURAL RESEARCH will be issued weekly and distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being \$3.00 per year, 52 numbers.

**Experiment Station Record**, Vol. XXXIV, No. 2, February, 1916. E. W. Allen, Ph. D., Editor. Pp. 101-200. Price, 15 cents.

*Same*, Vol. XXXIV, No. 3, Abstract Number. Pp. 201-300. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at \$1 a volume.

## SERVICE AND REGULATORY ANNOUNCEMENTS.—FOR SALE ONLY.

These contain *only* information, instructions, and notices governing the enforcement of the food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Animal Industry. No. 105. January, 1916. Pp. 1-12. Feb. 28, 1916. Price, 5 cents.

Bureau of Chemistry. Supplement No. 11. N. J. 4001-4050. Pp. 1-68. Feb. 4, 1916. Price, 10 cents.

Bureau of Chemistry. Supplement No. 12. N. J. 4051-4100. Pp. 69-140. Feb. 26, 1916. Price, 10 cents.

## SOIL SURVEYS.

All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

**Soil Survey of Columbia County, Arkansas.** By Clarence Lounsbury and E. B. Deeter. Pp. 38, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

**Soil Survey of Putnam County, Florida.** By Charles N. Mooney, B. D. Gilbert, H. W. Hawker, and W. B. Cobb. Pp. 52, pl. 1, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

**Soil Survey of Pottawattamie County, Iowa.** By A. L. Goodman, of the U. S. Department of Agriculture, and Peter Hanson and Harold W. Reid, of the Iowa Agricultural Experiment Station. Pp. 30, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

**Soil Survey of Nemaha County, Nebraska.** By A. H. Meyer, M. W. Beck, E. H. Smies, and R. R. Burn, of the U. S. Department of Agriculture, and L. T. Skinner and W. A. Rockie, of the Nebraska Soil Survey. Pp. 38, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

**Soil Survey of the Freehold Area, New Jersey.** By H. Jennings, of the Geological Survey of N. J., J. B. R. Dickey, of the U. S. Department of Agriculture, and L. L. Lee, of the N. J. Agricultural Experiment Station. Pp. 51, pl. 1, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

#### PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

**Monthly Weather Review.** (For sale only.) Vol. 43, No. 11, November, 1915. Jan. 25, 1916. Pp. 543-586, charts 9, figs. 13. Price, 25 cents a copy, \$2.50 a year. Payable to the Superintendent of Documents.

Special Articles: Solar and sky radiation at Washington, D. C., during Nov., 1915. By H. H. Kimball.—Increased solar activity and atmospheric optical phenomena. By J. Maurer.—Aurora of June 16-17, 1915. By Douglas F. Manning.—Aurora of June 16-17 at Ashland, Ohio. By S. W. Brandt.—Study of the upper air by means of telescopes.—Working up of wind observations. By J. W. Sandstrom.—Waterspouts off Cape San Lucas. By Willard J. Fisher.—Circulation and temperature of the atmosphere. By W. H. Dines.—Forecasting thunderstorms. By Gabriel Guilbert.—Comments on above. By Durand-Greville.—A breathing well. By John Free.—Temperature inversion in the Grand River Valley, Colo. By E. S. Nichols.—Relations between meteorological conditions in the Netherlands and some circumjacent places. By J. P. van der Stok.—Internal structure of the earth and the moon. By H. Jeffreys.

**National Weather and Crop Bulletin**, No. 1, January, 1916, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

**Snow and Ice Bulletins** for February 1, 8, 15, 23, 29, 1916. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

JOS. A. ARNOLD,  
*Editor and Chief Division Publications.*